

DOCKET NO: 219467US0X

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

IN RE APPLICATION OF :  
SHIGEKI KOBAYASHI, ET AL. : EXAMINER: HU, H.  
SERIAL NO: 10/072,995 :  
FILED: FEBRUARY 12, 2002 : GROUP ART UNIT: 1713  
FOR: PROCESS FOR PRODUCING A :  
TETRAFLUOROETHYLENE POLYMER :  
EXCELLENT IN STRENGTH :

DECLARATION UNDER 37 C.F.R. 5 1.132

COMMISSIONER FOR PATENTS  
ALEXANDRIA, VIRGINIA 22313

SIR:

Now comes Hiroyuki Hirai who deposes and states:

1. That I am a graduate of Keio University and received a master degree in the year 1992.
2. That I have been employed by Asahi Glass Company, Limited for 11 years as an engineer in the field of polymerization.
3. That the following experiments were carried out by me or under my direct supervision and control,

In Comparative Example A, PTFE was prepared in the same manner as in Example 1 at page 15, last line to page 17, line 18 of the present specification, except that sodium sulfite was used in place of ammonium sulfite. Standard specific gravity (SSG) and Stress Relaxation Time values of the PTFE thus prepared were measured.

4. Results

The results are shown in the following Table A, together with the results of Example 1 of the present invention as copied from Table 1 at page 22 of the specification.

Table A

	Example 1 (according to present invention) (ammonium sulfite)	Comparative Example A (sodium sulfite)
SSG	2.148	2.1504
Stress Relaxation Time (sec)	741	501

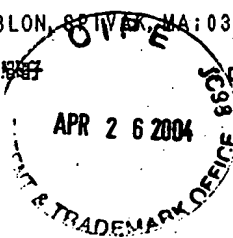
As evident from Table A, PTFE prepared in accordance with Example 1 of the present invention using ammonium sulfite has a smaller SSG value (having a larger molecular weight) and a longer Stress Relaxation Time (excellent in heat resistance) compared to the comparative PTFE prepared by using sodium sulfite. Thus, PTFE prepared according to the present invention is superior to PTFE prepared using sodium sulfite. Such result is unexpected.

5. The undersigned petitioner declares further that all statements made herein of his own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of this application or any patent issuing therefrom.

6. Further deponent saith not.

*Hiroyuki Hirai*  
Signature Hiroyuki Hirai

*Apr. 22, 2004*  
Date



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SHIGEKI KOBAYASHI, ET AL.

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SERIAL NO.: 10/072,995

EXAMINER: HENRY S. HU

FILED: FEBRUARY 12, 2002

FOR: PROCESS FOR PRODUCING A TETRAFLUOROETHYLENE POLYMER  
EXCELLENT IN STRENGTH

DECLARATION UNDER 37 C.F.R. §1.132

ASSISTANT COMMISSIONER FOR PATENTS  
WASHINGTON, D.C. 20231

SIR:

Now comes Hiroyuki Hirai who deposes and states:

1. I am a graduate of graduate school and received my master's degree in the year 1992.
2. I have been employed by Ashahi Glass Co., LTD for 11 years as a an engineer in the field of polymerization.
3. The experiments in the specification were carried out by me or under my direct supervision and control.
4. The stress relaxation time in Example 5 was erroneously reported in the Japanese priority documents as well as in the present application. In Table 1 on page 22 of the specification, the stress relaxation time of Example 5 should be "703" instead of "520".
5. The undersigned petitioner declares further that all statements made herein of his own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false

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statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of this application or any patent issuing thereon.

6. Further deponent saith not.

Shiroyuki Shirai  
Signature

Dec. 24, 2003  
Date

NFOKAG:

PTO 1449  
(if filed)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY DOCKET NO.  
219467US0XSERIAL NO.  
10/072,995

SHEET 1 OF 1

LIST OF REFERENCES CITED BY APPLICANT

APPLICANT

Shigeki KOBAYASHI, et al.

FILING DATE

February 12, 2002

GROUP

1713

## U.S. PATENT DOCUMENTS

AMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
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## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AO					
	AP					
	AQ					
	AR					
	AS					
	AT					
	AU					
	AV					

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

	AW	CRC Handbook of Chemistry and Physics, Ed. 56 <sup>TH</sup> , Robert C. Weast, Ph.D. (2 pp.)	
	AX		
	AY		
	AZ		<input type="checkbox"/> Additional References sheet(s) attached
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